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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	442	(602/62).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 09:46
L2	253	(602/60).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 09:49
L3	66	(128/881).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:09
L4	724	(602/26).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:17
L5	472	(602/20).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:30
L6	228	(602/75).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:41
L7	107	(602/76).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:43
L8	75	(602/77).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 10:43
L9	524	(deep adj vein adj thrombosis or dvt or embolism) and (sleeve or wrap or bandage) and (urethane or polyurethane or silicone)	US-PGPUB	OR	ON	2006/10/26 10:54

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L10	7	(negligible near2 compression or light near3 compression) and (sleeve or bandage or dressing or stocking or wrap) and (deep adj vein adj thrombosis or embolism)	US-PGPUB	OR	ON	2006/10/26 10:57
L11	9	(negligible near2 compression or light near3 compression) and (sleeve or bandage or dressing or stocking or wrap) and (deep adj vein adj thrombosis or embolism)	US-PGPUB	OR	ON	2006/10/26 10:57
L12	0	("2005/0033392").URPN.	USPAT	OR	OFF	2006/10/26 10:56
L13	15	(negligible near2 compression or light near3 compression) and (sleeve or bandage or dressing or stocking or wrap) and (deep adj vein adj thrombosis or embolism)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/26 10:57
L14	17	(negligible near2 compression or light near3 compression) and (sleeve or bandage or dressing or stocking or wrap) and (deep adj vein adj thrombosis or embolism)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/26 10:58
S1	16	sleeve and thrombosis and neoprene	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 14:06
S2	24	("3392553" "3611755" "3728875" "3729956" "3874001" "3975929" "3983870" "4021860" "4048818" "4086790" "4149274" "4180065" "4180869" "4502158" "4561267" "5022387" "5412957" "5540063" "5814003" "5885910" "5948707" "6178785").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/02 14:29
S3	0	("6871516").URPN.	USPAT	OR	OFF	2006/06/02 14:30
S4	0	("6871516").URPN.	USPAT	OR	OFF	2006/06/02 14:30
S5	244	(dvt or deep adj vein adj thrombosis) and sleeve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/05 09:13
S6	7	("4355632" "4372297" "4402312" "4597384" "4674479" "5146932" "5267951").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 09:06
S7	12	("5795312").URPN.	USPAT	OR	OFF	2006/06/05 09:07

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S8	244	(602/60).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/05 09:13
S9	253	(deep adj vein adj thrombosis or dvt) and (sleeve or wrap or bandage) and (urethane or polyurethane or silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/26 07:06
S10	0	("2005/0165463").URPN.	USPAT	OR	OFF	2006/10/24 14:11
S11	0	("2005/0165463").URPN.	USPAT	OR	OFF	2006/10/24 14:11
S12	0	("2005/0165463").URPN.	USPAT	OR	OFF	2006/10/24 16:26
S13	375	sleeve and embolism and (polyurethane or urethane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/24 16:27
S14	427	sleeve and embolism and (polyurethane or urethane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/24 16:27
S15	944	(deep adj vein adj thrombosis or dvt or embolism) and (sleeve or wrap or bandage) and (urethane or polyurethane or silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/26 10:45
S16	270	(602/63).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/26 09:41

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Scholarly articles for **negligible compression and embolism**



Diagnosis of deep venous thrombosis and pulmonary ... - Macklon - Cited by 8

Below-Knee Elastic Compression Stockings To Prevent the ... - Prandoni - Cited by 36

The Effects of the Simulated Valsalva Maneuver, Liver ... - Verghese - Cited by 7

Enoxaparin plus **Compression** Stockings Compared with **Compression** ...

Patients with clinical features suggestive of pulmonary **embolism** were scheduled to ... of the surgery had a **negligible** effect on the outcome of the study. ...

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Venous Thromboembolism: Diagnosis

About 90% of patients with a non-high-probability lung scan have a normal **compression** ultrasound test; of these, about 80% do not have pulmonary **embolism**. ...

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The Effects of the Simulated Valsalva Maneuver, Liver **Compression** ...

This increase is significant in young children, but **negligible** in infants. ... are routinely placed in this position to decrease the chance of air **embolism**. ...

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account for the **negligible** increase in blood flow to the neck vessels with the T position, ... this position to decrease the chance of air **embolism**. ...

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Blackwell Synergy: Br J Surg, Vol 87, Issue 11, pp. 1525-1528 ...

The risk of pulmonary **embolism** from isolated calf vein thrombosis seems **negligible**; however, a recurrence rate of 29 per cent and propagation rate into

more ...

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noise of the IPC system while in operation had a **negligible** effect. Discussion ...
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Only 2 cm³ of air is used which causes **negligible** ballooning. ... Graded
compression for preventing **deep vein thrombosis**. BMJ 1976; ii: 969 70 ...
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negative ultrasonographic scan (**compression** or duplex). should be
followed by either venography to detect **deep calf. vein thrombosis** or
repeat ...

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Deep vein thrombosis - advice for travellers on prevention ...

A Cochrane systematic review assessed the evidence to support the use of **compression** stockings to prevent **deep vein thrombosis** (DVT) and pulmonary embolism ...

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Deep vein thrombosis - PRODIGY Knowledge Guidance: structured view

Compression stockings are advised after a proximal **deep vein thrombosis** (DVT). ... for a major clinical impact to those having a **negligible** clinical effect. ...

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Deep Vein Thrombosis in Air Travellers

A summary of our current knowledge about **deep vein thrombosis** (DVT) in air travellers. ... This resulted in **negligible** swelling in the stocking clad leg, ...

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NEJM -- Enoxaparin plus Compression Stockings Compared with ...

Prevention of **deep vein thrombosis** in neurosurgical patients: a controlled, randomized trial of external pneumatic **compression** boots. ...

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Deep vein thrombosis - Everybody - Health Information for New ...

What is **deep vein thrombosis** (DVT)? Is it only related to flying, ... of serious **thrombosis** is about one in 100000, so the increase is almost **negligible**. ...

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- ☐ **1:** Dermatol Surg. 1997 Oct;23(10):935-9. [Link](#)

**Pressure differences of
elastic compression
stockings at the ankle
region.**

**Veraart JC, Pronk G,
Neumann HA.**

Department of Dermatology,
Academisch Ziekenhuis
Maastricht, The Netherlands.

BACKGROUND: Elastic
compression stockings are
widely used medical

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Effects of
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compression
stockings on
interface
pressure and
edema
prevention
Dermatol Surg. 1996

The effect of
medical
elastic

devices for the prevention of edema and treatment of venous diseases. Many beneficial effects have been described in the past. The exact amount of pressure underneath elastic compression stockings at different areas of the leg remains controversial. **OBJECTIVE:** To examine the pressure at the skin underneath class II elastic compression stockings at different places around the ankle at the B level. **METHODS:** Patients with known venous insufficiency and regularly using class II elastic therapeutic compression stockings (25-35 mm Hg) for venous diseases were included. All subjects were wearing completely

new stockings at the time of the study.

Measurements were performed with an electropneumatic interface pressure measuring device (Oxford Pressure Monitor MK II) with inflatable small sensing cells. Six sensors were placed around the smallest circumference at the ankle (B-area). The highest and lowest recordings as well as the means were evaluated.

RESULTS: The mean pressure of class II elastic stockings measured around the ankle was 24.7 mm Hg (SD, 8.4). The lowest pressures were found at the medial site (18.3 mm Hg; 74% of the mean), and the

highest at the pretibial zone (33.9 mm Hg, 137%). CONCLUSIONS: The pressure exerted by pressure class II elastic compression stockings at the medial site just above the ankle (B area) is too low to have influence and improve the venous insufficiency. For phlebology this is the target area. It might be a reason for the high recurrence rate of venous ulcers even if patients wear stockings. Also, the mean pressure of class II stockings was found to be below the normal levels of its pressure class (25-35 mm Hg according to the European CEN classification). The results advocate the use of

compression stocking
more often and the use of
pelottes or foam pads.

PMID: 9357505 [PubMed
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☐ **1:** Proctor MC, Greenfield LJ, Wakefield TW, Zajkowski PJ. R

A clinical comparison of pneumatic compression selection.

J Vasc Surg. 2001 Sep;34(3):459-63; discussion 463-4. E 2002 Apr;35(4):678.

PMID: 11533598 [PubMed - indexed for MEDLINE]

☐ **2:** Janssen H, Trevino C, Williams D. R

Hemodynamic alterations in venous blood flow pr pneumatic compression.

J Cardiovasc Surg (Torino). 1993 Oct;34(5):441-7.

PMID: 8282751 [PubMed - indexed for MEDLINE]

☐ **3:** Stemmer R. R

[Theoretical and practical bases of compression]

J Mal Vasc. 1992;17(4):329-32. French.

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**[Theoretical and
practical bases of
compression]**

[Article in French]

Stemmer R.

The pressure applied by rigid or elastic compression of the skin surface of a limb is exerted as a function of two parameters. Pressure applied by an elastic tissue acts according to

Laplace's law, varying with the tension of the elastic tissue and the radius of the curve of the area compressed. A rigid dressing acts solely by alternating working and resting pressures.

Superficial pressure is transmitted to the extra- and intra-fascial compartments through the intermediary of an increase in tissue pressure. This pressure extension acts on all the compressible structures of the limb. It reduces the caliber of the veins in all compartments, and therefore the total venous blood volume of the limb, and increases the rate of circulatory return. The venous pressure adapts itself to

stocking in treatment of ulcus cruris. An efficient alternative to

bandage
Hautarzt. 2000;1

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Scand J Surg. 1997;1

Upper extremity edema control: rationale of the

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Cup Ther. 1979;1

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the pressure of the dressing. The action on the vessel wall is seen as an increase in fibrinolytic activity and the proliferation of contractile myocytes. Its principal effect, however, is on vascular-tissue integrity: it diminishes interstitial edema and compacts the connective tissue fibrils, decongests the capillary endothelium and reduces the pericapillary sleeve of mucopolysaccharides. But it increases basal membrane thickness. Too high a pressure provokes collapse of the lymphangions. The rheologic action of the compression results in a decrease in blood viscosity. The effect of the compression is to

induce local reabsorption of venous edema, while lymphatic edema is displaced towards the root of the limb to a zone where it may be reabsorbed. All these phenomena are reversible on removal of the compression treatment.

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